

**APPENDIX**  
**INDICATION OF CLAIM AMENDMENTS**

14. Spinal osteosynthesis device comprising:

at least two bone-anchoring elements; and

means for longitudinally connecting the at least two bone-anchoring elements;

each of the at least two bone-anchoring elements comprising:

a head shaped so as to allow grasping with a screwing tool;

a threaded shank extending from the head, and

a tightening element which can be fitted onto the threaded shank to immobilize an assembly comprising the means for longitudinally connecting and a corresponding one of said at least two bone-anchoring elements,

wherein the threaded shank has a ball end, the head of each of the at least two bone-anchoring elements having an opening into a recess defined by an approximately hemispherical interior surface sized to receive the ball end of the threaded shank, the head having a hemispherical exterior surface, ~~the interior and exterior surfaces defining a wall therebetween, wherein the wall tapers as it approaches the opening;~~ and

wherein the said interior surface is and said exterior surface are continuous throughout an entirety on a periphery of the recess, the interior and exterior surfaces

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extending beyond the periphery on a side opposite a bottom  
of the recess, so as to define a continuous wall  
therebetween, the wall protruding on said side opposite a  
bottom of the recess, said wall extending around said ball  
and in an immediate vicinity of said ball, said wall  
tapering and terminating in a free edge defining the  
opening having a diameter that is less than a diameter of  
the ball, the bottom of the recess lying on one side of an  
equator of the ball, a part of the ball around which the  
free edge extends lying on an opposite side of the equator  
of the ball.

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31. Spinal osteosynthesis device comprising:

at least two bone-anchoring elements; and

means for longitudinally connecting the at least two bone-anchoring elements;

each of the at least two bone-anchoring elements comprising:

a head shaped so as to allow grasping with a screwing tool, the head having an opening into a recess defined by an approximately hemispherical interior surface;

a first threaded shank with a ball end extending from the head, the recess of the head being sized to receive the ball end of the first threaded shank;

a second threaded shank rigidly extending from the head opposite the recess; and

a tightening element which can be fitted onto the first threaded shank to immobilize an assembly comprising the means for longitudinally connecting and a corresponding one of said at least two bone-anchoring elements,

wherein the head has a hemispherical exterior surface, ~~the interior; and exterior surfaces defining a wall therebetween, wherein the wall is integral with the second threaded shank;~~

~~wherein the wall tapers as it approaches the opening; and~~

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wherein the said interior surface is and said exterior surface are continuous throughout an entirety on a periphery of the recess, the interior and exterior surfaces extending beyond the periphery on a side opposite a bottom of the recess, so as to define a continuous wall therebetween, the wall protruding on said side opposite a bottom of the recess, said wall extending around said ball and in an immediate vicinity of said ball, said wall tapering and terminating in a free edge defining the opening having a diameter that is less than a diameter of the ball, the bottom of the recess lying on one side of an equator of the ball, a part of the ball around which the free edge extends lying on an opposite side of the equator of the ball.